

# **VEHICLE SPARE TIRE PRESSURE DETECTION ASSEMBLY**

## **ABSTRACT OF THE DISCLOSURE**

A vehicle spare tire pressure detection assembly includes a tire support and hoisting unit that performs the function of hoisting and storing a spare tire, and a spare tire pressure detection unit that performs the function of monitoring tire pressure in the spare tire when the spare tire is in a stored state. The tire support and hoisting unit is configured to maintain an initial compression force on a side wall of the spare tire to deflect the side wall of the spare tire. The spare tire pressure detection unit monitors the adjustments made by the tire support and hoisting unit to maintain the initial compression force on the spare tire to determine if the spare tire has lost tire pressure below a predetermined threshold amount. A human detectable signal is produced when the spare tire pressure falls below the predetermined threshold amount.